

The Skeleton Inside You

Philip Balestrino
illustrated by
True Kelley

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Dinosaurs Are Different
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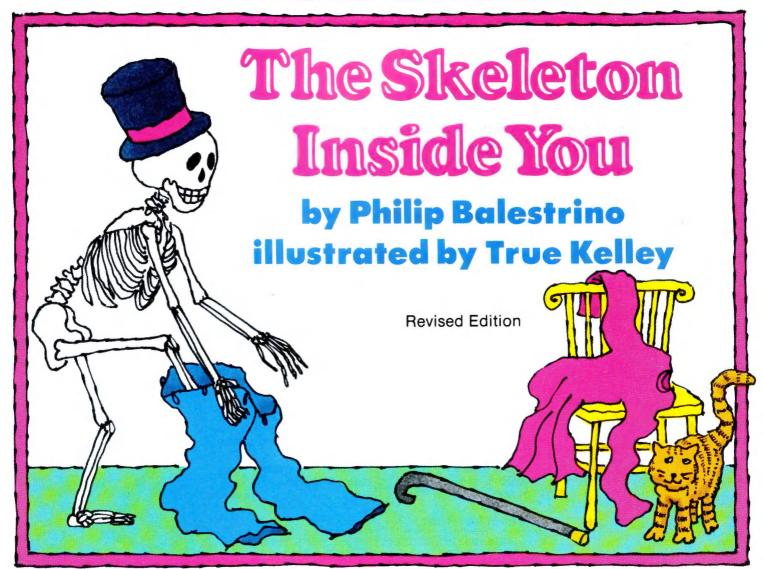
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The Let's-Read-and-Find-Out Science book series was originated by Dr. Franklyn M. Branley, Astronomer Emeritus and former Chairman of the American Museum-Hayden Planetarium, and was formerly co-edited by him and Dr. Roma Gans, Professor Emeritus of Childhood Education, Teachers College, Columbia University. Text and illustrations for each of the books in the series are checked for accuracy by an expert in the relevant field. For more information about Let's-Read-and-Find-Out Science books, write to HarperCollins Children's Books, 10 East 53rd Street, New York, NY 10022. Manufactured in China.

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Summary: An introduction to the human skeletal system, explaining how the 206 bones of the skeleton join together, how they grow, how they help make blood, what happens when they break, and how they mend.

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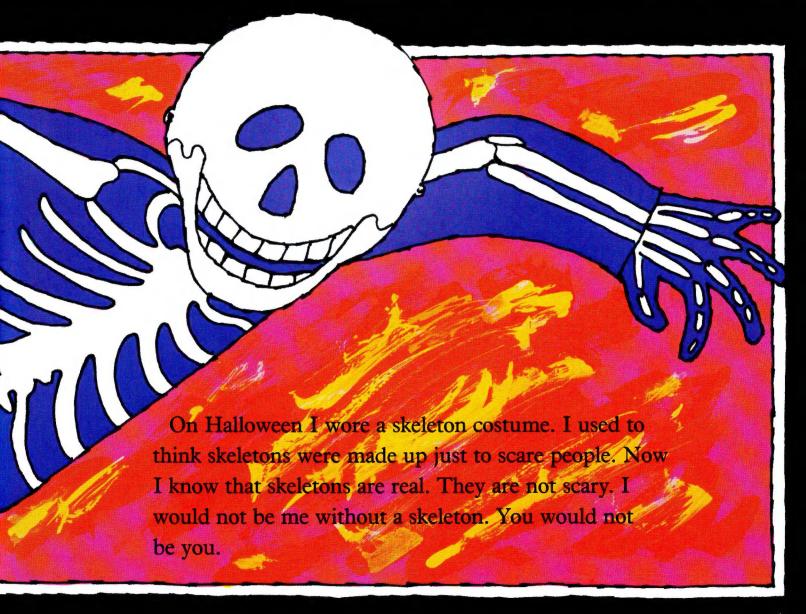
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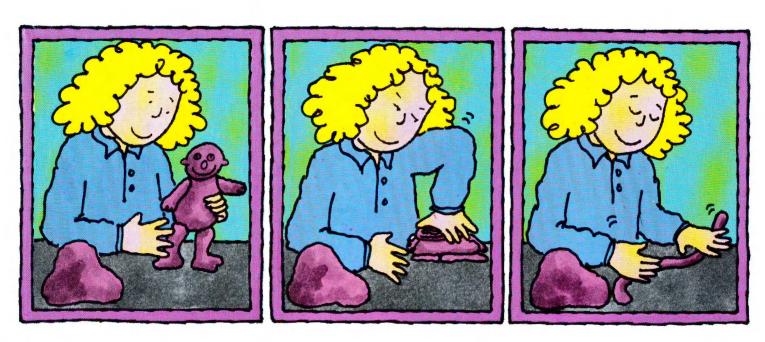


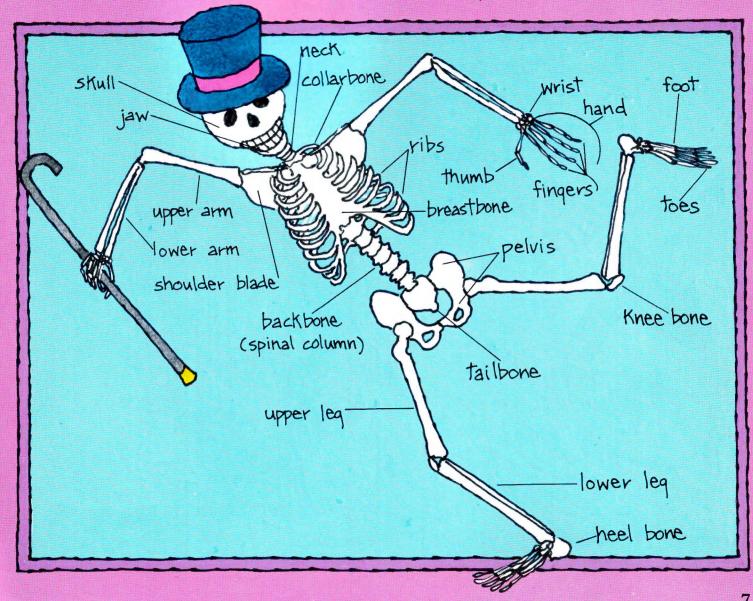
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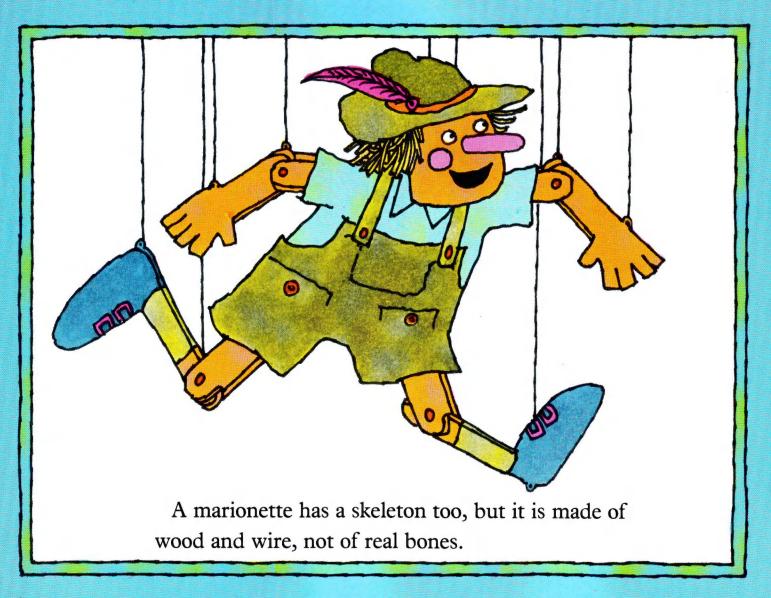




Skeletons are made up of many bones. Bones give you shape. A ball of clay has no bones inside it. You can make a ball of soft clay into any shape you want. You can make it into a little figure. Then you can squash the figure and roll it into a mustache or a snake. But nothing can change your shape, because you have a skeleton inside you.

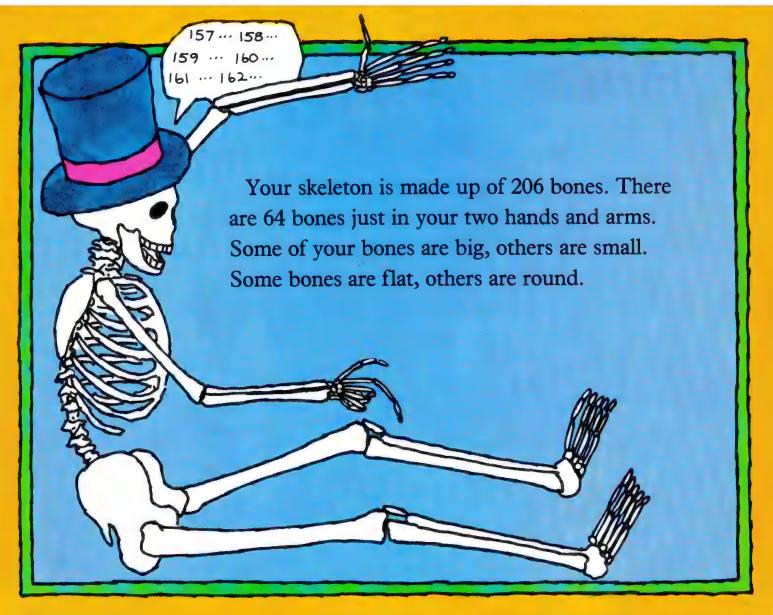


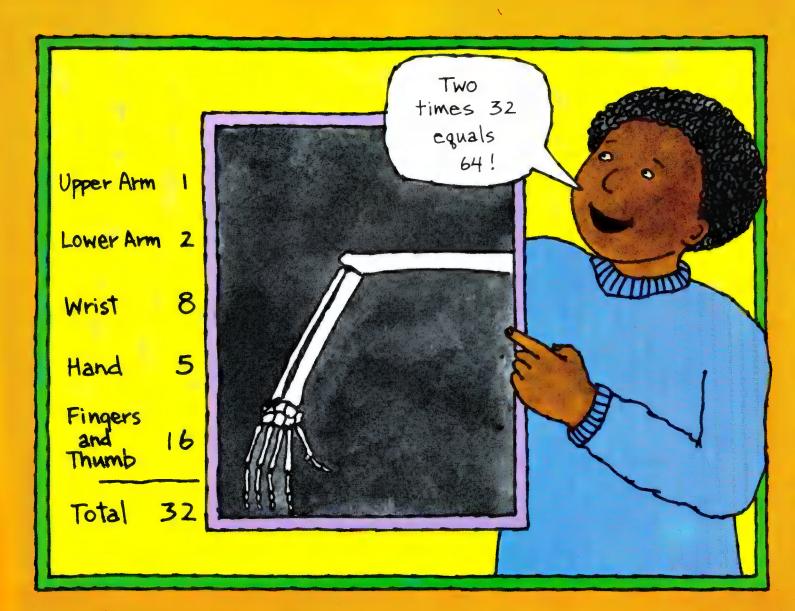


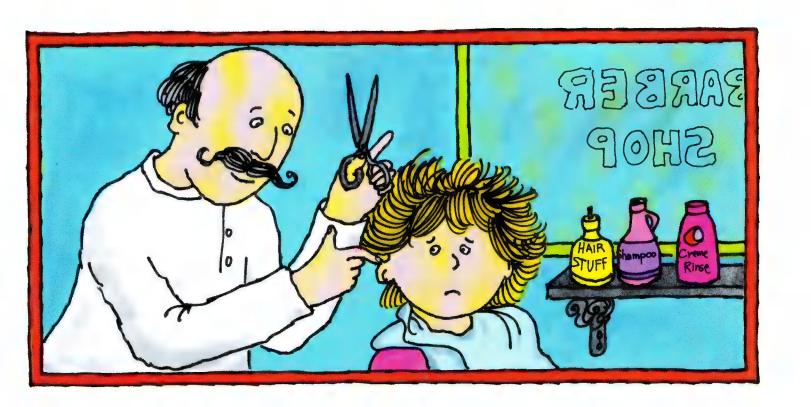


A plain wooden chair is like a skeleton without any covering. When the chair is covered with stuffing and cloth, it is like your skeleton covered with muscles and skin. But your skeleton is different. It is made up of bones.





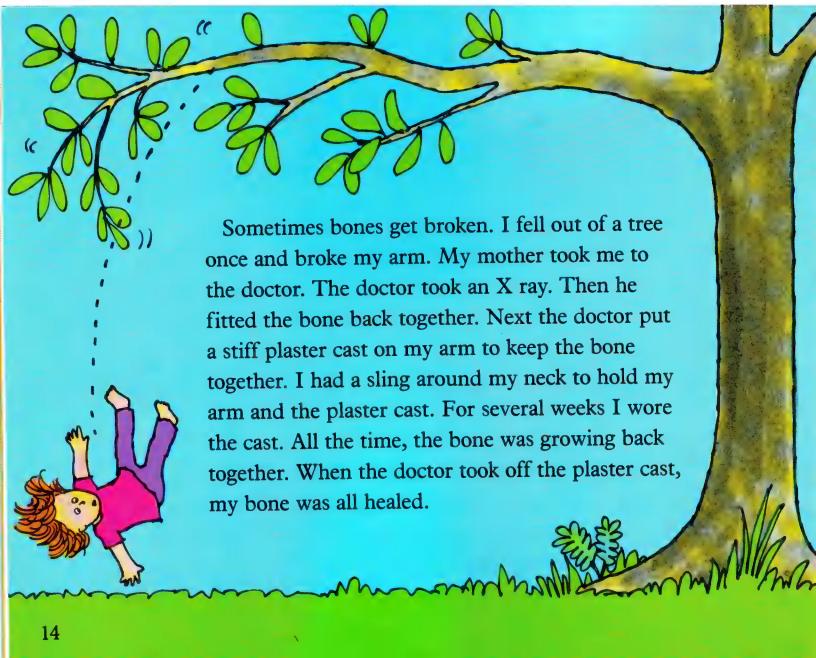


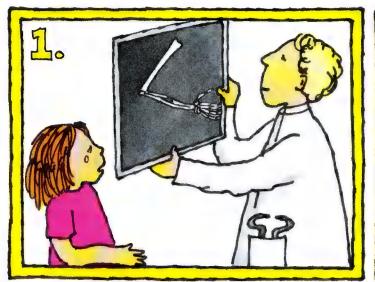


Bones are hard. They give your body shape. Your ears and nose have something called cartilage in them to give them shape. Cartilage is softer than bone, and so it can bend. When the barber folds over your ear to cut your hair, your ear does not break off. That's because of the soft cartilage in your ear.



Once I pushed my nose flat against a bakery window to look at some cookies. My nose didn't hurt, and it didn't break off. It came back to the same shape. Push your nose flat. It will bend too, because it has cartilage inside it.











Bones live and grow, just like every other part of the body. Bones start to grow before you are even born. As your bones grow longer, you grow taller, until you're all grown.

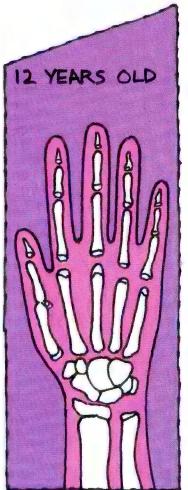


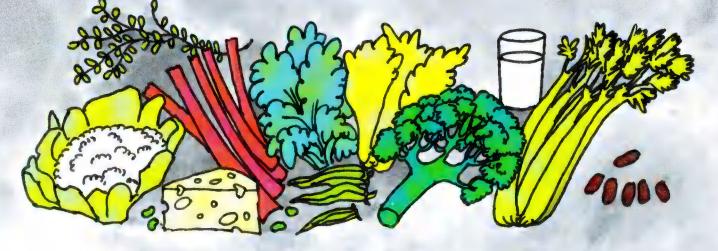
(THE BONES IN YOUR HAND CHANGE AND GROW -JUST AS YOU DO!)



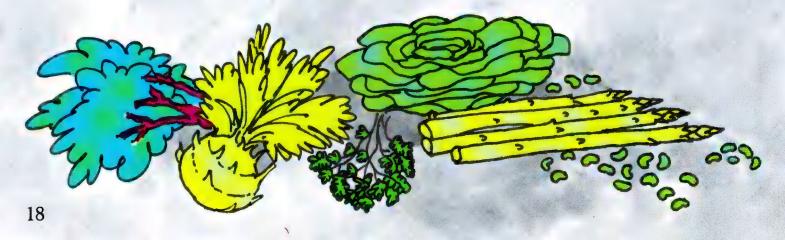




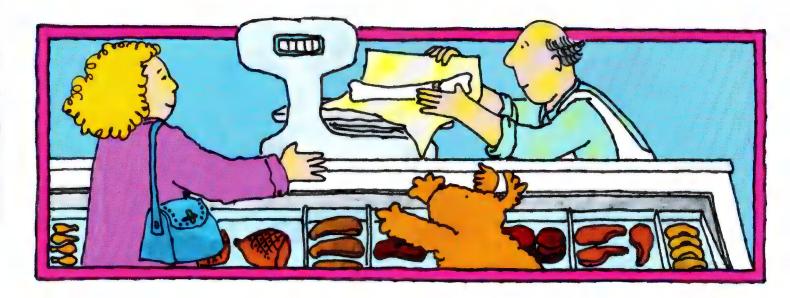




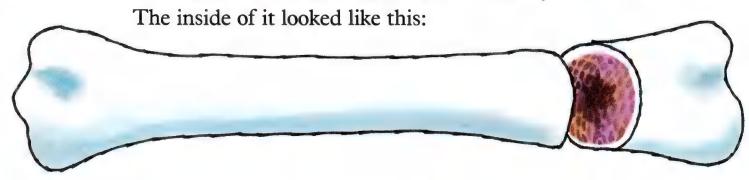
Foods like milk and cheese and some leafy vegetables have calcium in them. Calcium is a mineral that helps bones grow. Calcium also makes bones hard. Without it, all your bones would be as soft as cartilage. They would be soft enough to tie into knots.



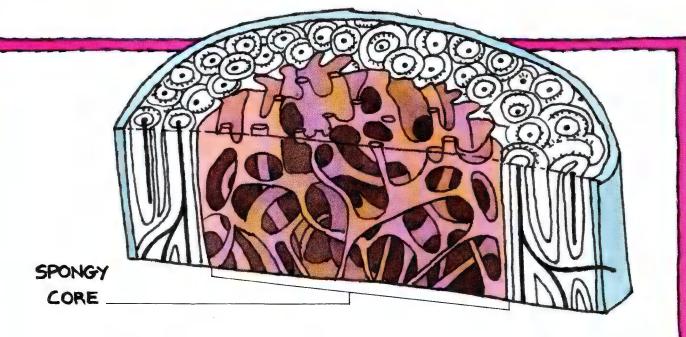




The butcher cut up a big soup bone for my mother.

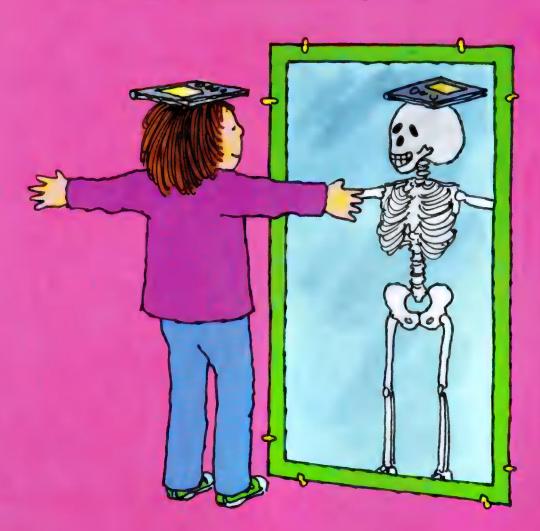


It was a bone from a big steer's leg. Your leg bones look almost the same inside.



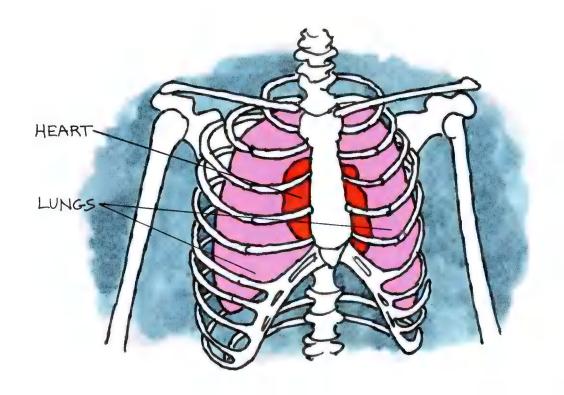
Inside your bones is a core that looks something like a sponge. All the little spaces in the core are filled with soft bone marrow. Bone marrow helps make the red cells of your blood.

The insides of bones store calcium and other minerals that come from the food you eat. These minerals are saved up until your body needs them. All your 206 bones fit together to make your skeleton. Your skeleton helps you stand up straight.

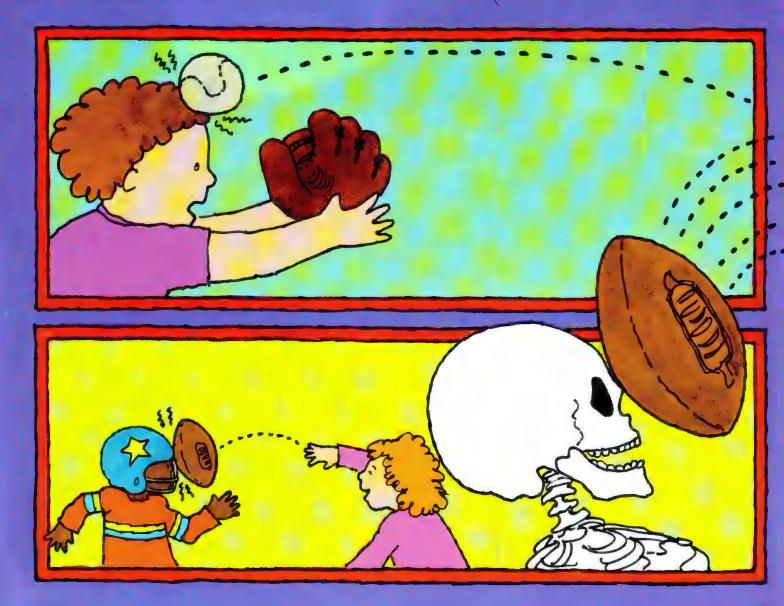


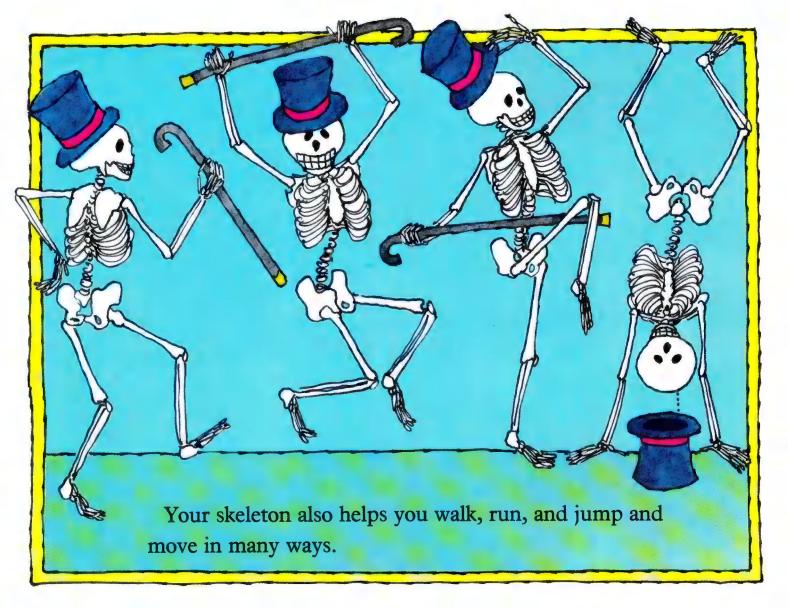


Without a skeleton, you would be like a ball of soft clay that can be molded into anything. You would be as floppy as a big beanbag.



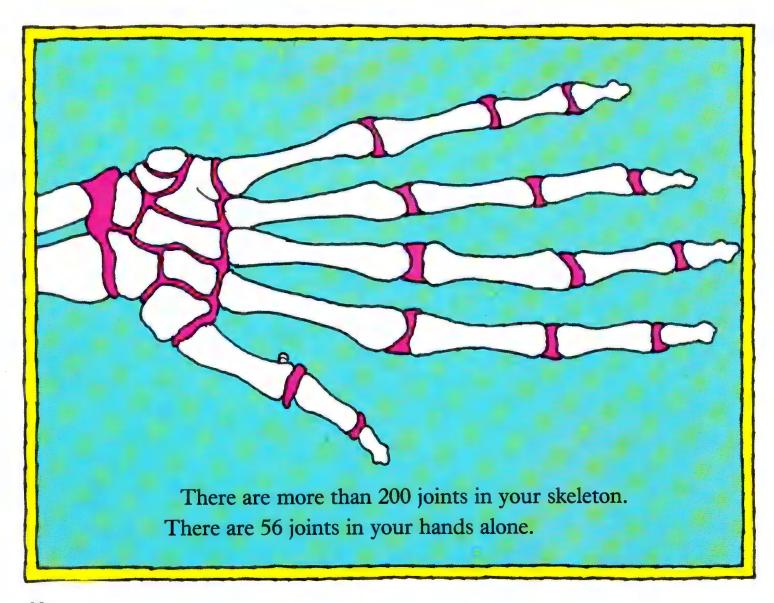
Some bones in your skeleton protect important parts inside you. Your rib bones cover your heart and lungs. Your skull protects your brain from hard knocks. The bones around your eyes protect them the way a football helmet does.

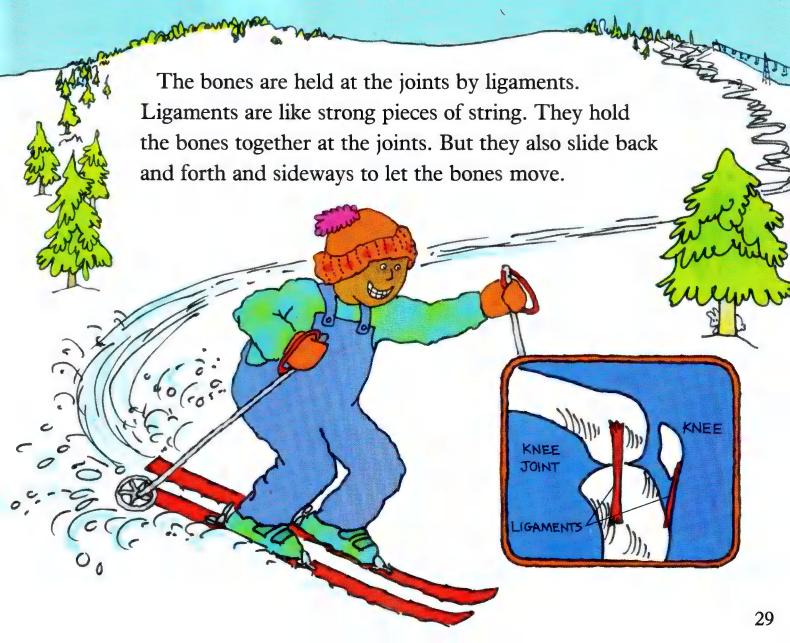




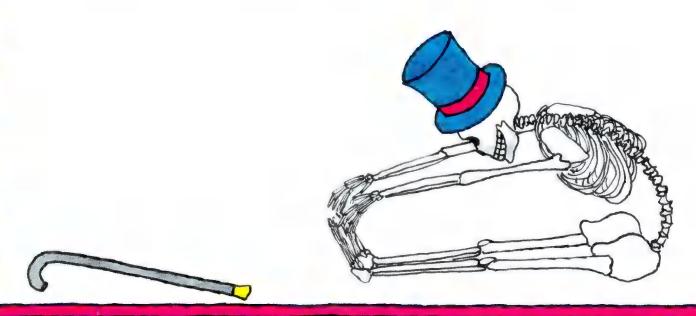
The bones of your skeleton fit together at joints. Without joints, your skeleton could not move or bend. Shoulders, elbows, and ankles are joints.



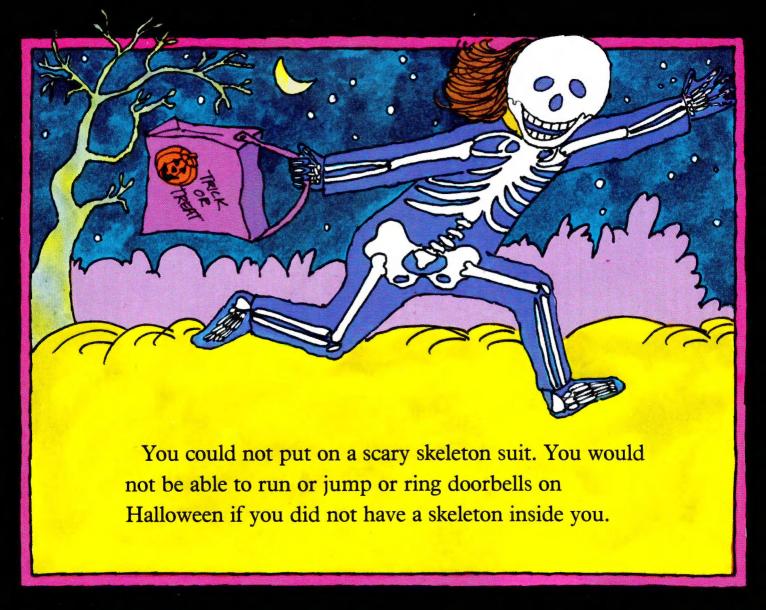




Your backbone is made up of 34 bones that fit together at 33 separate joints. That is why you can twist and turn almost any way. You can do a somersault. Or you can make yourself into a bridge, back up or belly up. If a backbone were only one bone, you could not do these things.







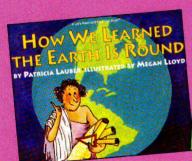
Philip Balestrino is on the faculty of the Fashion Institute of Technology in New York City. He is the author of several books for young readers.

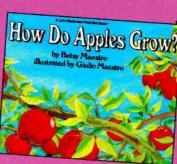
True Kelley is the illustrator of numerous children's books, including several other titles in the Let's-Read-and-Find-Out Science series, among them LOOK AT YOUR EYES and HOW MANY TEETH?, both by Paul Showers.

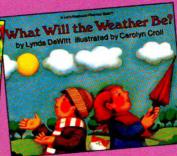
What does your skeleton do?

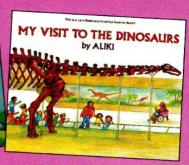
Your skeleton helps you leap, somersault, and touch your toes—without it, you would be as floppy as a beanbag! There are over 200 bones living and growing inside you that make up your skeleton. There are also ligaments and joints that hold your bones together, and cartilage in your bendable parts like your ears and your nose. Learn all about what a skeleton can do—because this isn't some make-believe Halloween skeleton, this is the real skeleton inside you.

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HarperTrophy Ages 5 to 9 RLE 2.9



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